

EAST BRS Search

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2554	microactuator\$1 or milliactuator\$1 or picoactuator\$1 or (micro ADJ actuator\$1) or (milli ADJ actuator\$1) or (pico ADJ actuator\$1) or micropositioner\$1 or (micro ADJ positioner\$1) or subactuator\$1 or (sub ADJ actuator\$1)	USPAT	OR	ON	2006/02/16 10:30
L2	89443	(actuator\$1 or positioner\$1 or positioning or (displacement ADJ element\$1)) NEAR2 (auxiliary or second\$3 or fine\$2 or dual or two or multiple or plural\$3 or piezo or piezo-electric\$4 or piezoelectric\$4 or PZT or bimorph\$2 or MEM or MEMS or piggyback\$3 or (piggy ADJ3 back\$3) or electrostatic\$4 or (electro ADJ static\$4) or ((fast or high or wide or large) NEAR1 (resolution or response or bandwidth\$1 or (band ADJ width\$1))))	USPAT	OR	ON	2006/02/16 10:30
L3	599	micro-actuator\$1 or milli-actuator\$1 or pico-actuator\$1 or micro-positioner\$1 or sub-actuator\$1	USPAT	OR	ON	2006/02/16 10:30
L4	90618	L1 or L2 or L3	USPAT	OR	ON	2006/02/16 10:30
L5	171015	stroke	USPAT	OR	ON	2006/02/16 10:30
L6	963	L4 NEAR10 L5	USPAT	OR	ON	2006/02/16 10:30
L7	83026	(magnetic ADJ3 (medium or media or disk or disc)) or HDD or HDA or DASD	USPAT	OR	ON	2006/02/16 10:30
(L8)	75	L6 and L7	USPAT	OR	ON	2006/02/16 10:31
L9	1425	microactuator\$1 or milliactuator\$1 or picoactuator\$1 or (micro ADJ actuator\$1) or (milli ADJ actuator\$1) or (pico ADJ actuator\$1) or micropositioner\$1 or (micro ADJ positioner\$1) or subactuator\$1 or (sub ADJ actuator\$1)	US-PGPUB	OR	ON	2006/02/16 10:37

Update searched circled L #

EAST Search History

L10	33916	(actuator\$1 or positioner\$1 or positioning or (displacement ADJ element\$1)) NEAR2 (auxiliary or second\$3 or fine\$2 or dual or two or multiple or plural\$3 or piezo or piezo-electric\$4 or piezoelectric\$4 or PZT or bimorph\$2 or MEM or MEMS or piggyback\$3 or (piggy ADJ3 back\$3) or electrostatic\$4 or (electro ADJ static\$4) or ((fast or high or wide or large) NEAR1 (resolution or response or bandwidth\$1 or (band ADJ width\$1))))	US-PGPUB	OR	ON	2006/02/16 10:37
L11	471	micro-actuator\$1 or milli-actuator\$1 or pico-actuator\$1 or micro-positioner\$1 or sub-actuator\$1	US-PGPUB	OR	ON	2006/02/16 10:37
L12	34517	L9 or L10 or L11	US-PGPUB	OR	ON	2006/02/16 10:37
L13	53132	stroke	US-PGPUB	OR	ON	2006/02/16 10:37
L14	943	L12 NEAR10 L13	US-PGPUB	OR	ON	2006/02/16 10:37
L15	64935	(magnetic ADJ3 (medium or media or disk or disc)) or HDD or HDA or DASD	US-PGPUB	OR	ON	2006/02/16 10:37
<u>L16</u>	93	L14 and L15	US-PGPUB	OR	ON	2006/02/16 10:37
L17	143	microactuator\$1 or milliactuator\$1 or picoactuator\$1 or (micro ADJ actuator\$1) or (milli ADJ actuator\$1) or (pico ADJ actuator\$1) or micropositioner\$1 or (micro ADJ positioner\$1) or subactuator\$1 or (sub ADJ actuator\$1)	EPO	OR	ON	2006/02/16 10:41
L18	3862	(actuator\$1 or positioner\$1 or positioning or (displacement ADJ element\$1)) NEAR2 (auxiliary or second\$3 or fine\$2 or dual or two or multiple or plural\$3 or piezo or piezo-electric\$4 or piezoelectric\$4 or PZT or bimorph\$2 or MEM or MEMS or piggyback\$3 or (piggy ADJ3 back\$3) or electrostatic\$4 or (electro ADJ static\$4) or ((fast or high or wide or large) NEAR1 (resolution or response or bandwidth\$1 or (band ADJ width\$1))))	EPO	OR	ON	2006/02/16 10:41
L19	48	micro-actuator\$1 or milli-actuator\$1 or pico-actuator\$1 or micro-positioner\$1 or sub-actuator\$1	EPO	OR	ON	2006/02/16 10:41
L20	3982	L17 or L18 or L19	EPO	OR	ON	2006/02/16 10:41
L21	12430	stroke	EPO	OR	ON	2006/02/16 10:41
L22	26	L20 NEAR10 L21	EPO	OR	ON	2006/02/16 10:41

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EAST Search History

L23	177844	medium or media or disk or disc or storage or HDD or DASD or HDA	EPO	OR	ON	2006/02/16 10:41
L24	4	L22 and L23	EPO	OR	ON	2006/02/16 10:41
L25	333	microactuator\$1 or milliactuator\$1 or picoactuator\$1 or (micro ADJ actuator\$1) or (milli ADJ actuator\$1) or (pico ADJ actuator\$1) or micropositioner\$1 or (micro ADJ positioner\$1) or subactuator\$1 or (sub ADJ actuator\$1)	JPO	OR	ON	2006/02/16 10:41
L26	11574	(actuator\$1 or positioner\$1 or positioning or (displacement ADJ element\$1)) NEAR2 (auxiliary or second\$3 or fine\$2 or dual or two or multiple or plural\$3 or piezo or piezo-electric\$4 or piezoelectric\$4 or PZT or bimorph\$2 or MEM or MEMS or piggyback\$3 or (piggy ADJ3 back\$3) or electrostatic\$4 or (electro ADJ static\$4) or ((fast or high or wide or large) NEAR1 (resolution or response or bandwidth\$1 or (band ADJ width\$1))))	JPO	OR	ON	2006/02/16 10:41
L27	106	micro-actuator\$1 or milli-actuator\$1 or pico-actuator\$1 or micro-positioner\$1 or sub-actuator\$1	JPO	OR	ON	2006/02/16 10:41
L28	11866	L25 or L26 or L27	JPO	OR	ON	2006/02/16 10:41
L29	35905	stroke	JPO	OR	ON	2006/02/16 10:41
L30	69	L28 NEAR10 L29	JPO	OR	ON	2006/02/16 10:41
L31	825349	medium or media or disk or disc or storage or HDD or DASD or HDA	JPO	OR	ON	2006/02/16 10:41
L32	8	L30 and L31	JPO	OR	ON	2006/02/16 10:41
L33	1135	microactuator\$1 or milliactuator\$1 or picoactuator\$1 or (micro ADJ actuator\$1) or (milli ADJ actuator\$1) or (pico ADJ actuator\$1) or micropositioner\$1 or (micro ADJ positioner\$1) or subactuator\$1 or (sub ADJ actuator\$1)	DERWENT	OR	ON	2006/02/16 10:42

Update searched circled L #'s

EAST Search History

L34	21817	(actuator\$1 or positioner\$1 or positioning or (displacement ADJ element\$1)) NEAR2 (auxiliary or second\$3 or fine\$2 or dual or two or multiple or plural\$3 or piezo or piezo-electric\$4 or piezoelectric\$4 or PZT or bimorph\$2 or MEM or MEMS or piggyback\$3 or (piggy ADJ3 back\$3) or electrostatic\$4 or (electro ADJ static\$4) or ((fast or high or wide or large) NEAR1 (resolution or response or bandwidth\$1 or (band ADJ width\$1))))	DERWENT	OR	ON	2006/02/16 10:42
L35	366	micro-actuator\$1 or milli-actuator\$1 or pico-actuator\$1 or micro-positioner\$1 or sub-actuator\$1	DERWENT	OR	ON	2006/02/16 10:42
L36	22766	L33 or L34 or L35	DERWENT	OR	ON	2006/02/16 10:42
L37	80675	stroke	DERWENT	OR	ON	2006/02/16 10:42
L38	135	L36 NEAR10 L37	DERWENT	OR	ON	2006/02/16 10:42
L39	1575479	medium or media or disk or disc or storage or HDD or DASD or HDA	DERWENT	OR	ON	2006/02/16 10:42
L40	16	L38 and L39	DERWENT	OR	ON	2006/02/16 10:42
L41	17	microactuator\$1 or milliactuator\$1 or picoactuator\$1 or (micro ADJ actuator\$1) or (milli ADJ actuator\$1) or (pico ADJ actuator\$1) or micropositioner\$1 or (micro ADJ positioner\$1) or subactuator\$1 or (sub ADJ actuator\$1)	IBM_TDB	OR	ON	2006/02/16 10:43
L42	218	(actuator\$1 or positioner\$1 or positioning or (displacement ADJ element\$1)) NEAR2 (auxiliary or second\$3 or fine\$2 or dual or two or multiple or plural\$3 or piezo or piezo-electric\$4 or piezoelectric\$4 or PZT or bimorph\$2 or MEM or MEMS or piggyback\$3 or (piggy ADJ3 back\$3) or electrostatic\$4 or (electro ADJ static\$4) or ((fast or high or wide or large) NEAR1 (resolution or response or bandwidth\$1 or (band ADJ width\$1))))	IBM_TDB	OR	ON	2006/02/16 10:43
L43	5	micro-actuator\$1 or milli-actuator\$1 or pico-actuator\$1 or micro-positioner\$1 or sub-actuator\$1	IBM_TDB	OR	ON	2006/02/16 10:43
L44	230	L41 or L42 or L43	IBM_TDB	OR	ON	2006/02/16 10:43
L45	724	stroke	IBM_TDB	OR	ON	2006/02/16 10:43
L46	0	L44 NEAR10 L45	IBM_TDB	OR	ON	2006/02/16 10:43

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EAST Search History

L47	2554	microactuator\$1 or milliactuator\$1 or picoactuator\$1 or (micro ADJ actuator\$1) or (milli ADJ actuator\$1) or (pico ADJ actuator\$1) or micropositioner\$1 or (micro ADJ positioner\$1) or subactuator\$1 or (sub ADJ actuator\$1)	USPAT	OR	ON	2006/02/16 10:45
L48	89443	(actuator\$1 or positioner\$1 or positioning or (displacement ADJ element\$1)) NEAR2 (auxiliary or second\$3 or fine\$2 or dual or two or multiple or plural\$3 or piezo or piezo-electric\$4 or piezoelectric\$4 or PZT or bimorph\$2 or MEM or MEMS or piggyback\$3 or (piggy ADJ3 back\$3) or electrostatic\$4 or (electro ADJ static\$4) or ((fast or high or wide or large) NEAR1 (resolution or response or bandwidth\$1 or (band ADJ width\$1))))	USPAT	OR	ON	2006/02/16 10:45
L49	599	micro-actuator\$1 or milli-actuator\$1 or pico-actuator\$1 or micro-positioner\$1 or sub-actuator\$1	USPAT	OR	ON	2006/02/16 10:45
L50	90618	L47 or L48 or L49	USPAT	OR	ON	2006/02/16 11:58
L51	83026	(magnetic ADJ3 (medium or media or disk or disc)) or HDD or HDA or DASD	USPAT	OR	ON	2006/02/16 10:45
L52	1771	L50 same (test\$3 or evaluat\$3)	USPAT	OR	ON	2006/02/16 10:45
L53	136	L52 and L51	USPAT	OR	ON	2006/02/16 10:45
L54	1425	microactuator\$1 or milliactuator\$1 or picoactuator\$1 or (micro ADJ actuator\$1) or (milli ADJ actuator\$1) or (pico ADJ actuator\$1) or micropositioner\$1 or (micro ADJ positioner\$1) or subactuator\$1 or (sub ADJ actuator\$1)	US-PGPUB	OR	ON	2006/02/16 10:52
L55	33916	(actuator\$1 or positioner\$1 or positioning or (displacement ADJ element\$1)) NEAR2 (auxiliary or second\$3 or fine\$2 or dual or two or multiple or plural\$3 or piezo or piezo-electric\$4 or piezoelectric\$4 or PZT or bimorph\$2 or MEM or MEMS or piggyback\$3 or (piggy ADJ3 back\$3) or electrostatic\$4 or (electro ADJ static\$4) or ((fast or high or wide or large) NEAR1 (resolution or response or bandwidth\$1 or (band ADJ width\$1))))	US-PGPUB	OR	ON	2006/02/16 10:52

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EAST Search History

L56	471	micro-actuator\$1 or milli-actuator\$1 or pico-actuator\$1 or micro-positioner\$1 or sub-actuator\$1	US-PGPUB	OR	ON	2006/02/16 10:52
L57	34517	L54 or L55 or L56	US-PGPUB	OR	ON	2006/02/16 10:52
L58	791	L57 same (test\$3 or evaluat\$3)	US-PGPUB	OR	ON	2006/02/16 10:52
L59	64935	(magnetic ADJ3 (medium or media or disk or disc)) or HDD or HDA or DASD	US-PGPUB	OR	ON	2006/02/16 10:52
L60	84	L58 and L59	US-PGPUB	OR	ON	2006/02/16 10:52
L61	143	microactuator\$1 or milliactuator\$1 or picoactuator\$1 or (micro ADJ actuator\$1) or (milli ADJ actuator\$1) or (pico ADJ actuator\$1) or micropositioner\$1 or (micro ADJ positioner\$1) or subactuator\$1 or (sub ADJ actuator\$1)	EPO	OR	ON	2006/02/16 10:55
L62	3862	(actuator\$1 or positioner\$1 or positioning or (displacement ADJ element\$1)) NEAR2 (auxiliary or second\$3 or fine\$2 or dual or two or multiple or plural\$3 or piezo or piezo-electric\$4 or piezoelectric\$4 or PZT or bimorph\$2 or MEM or MEMS or piggyback\$3 or (piggy ADJ3 back\$3) or electrostatic\$4 or (electro ADJ static\$4) or ((fast or high or wide or large) NEAR1 (resolution or response or bandwidth\$1 or (band ADJ width\$1))))	EPO	OR	ON	2006/02/16 10:55
L63	48	micro-actuator\$1 or milli-actuator\$1 or pico-actuator\$1 or micro-positioner\$1 or sub-actuator\$1	EPO	OR	ON	2006/02/16 10:55
L64	3982	L61 or L62 or L63	EPO	OR	ON	2006/02/16 10:55
L65	70	L64 same (test\$3 or evaluat\$3)	EPO	OR	ON	2006/02/16 10:55
L66	126758	medium or media or disk or disc or HDD or HDA or DASD	EPO	OR	ON	2006/02/16 10:55
L67	3	L65 and L66	EPO	OR	ON	2006/02/16 10:55
L68	333	microactuator\$1 or milliactuator\$1 or picoactuator\$1 or (micro ADJ actuator\$1) or (milli ADJ actuator\$1) or (pico ADJ actuator\$1) or micropositioner\$1 or (micro ADJ positioner\$1) or subactuator\$1 or (sub ADJ actuator\$1)	JPO	OR	ON	2006/02/16 10:56

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EAST Search History

L69	11574	(actuator\$1 or positioner\$1 or positioning or (displacement ADJ element\$1)) NEAR2 (auxiliary or second\$3 or fine\$2 or dual or two or multiple or plural\$3 or piezo or piezo-electric\$4 or piezoelectric\$4 or PZT or bimorph\$2 or MEM or MEMS or piggyback\$3 or (piggy ADJ3 back\$3) or electrostatic\$4 or (electro ADJ static\$4) or ((fast or high or wide or large) NEAR1 (resolution or response or bandwidth\$1 or (band ADJ width\$1))))	JPO	OR	ON	2006/02/16 10:56
L70	106	micro-actuator\$1 or milli-actuator\$1 or pico-actuator\$1 or micro-positioner\$1 or sub-actuator\$1	JPO	OR	ON	2006/02/16 10:56
L71	11866	L68 or L69 or L70	JPO	OR	ON	2006/02/16 10:56
L72	110	L71 same (test\$3 or evaluat\$3)	JPO	OR	ON	2006/02/16 10:56
L73	510296	medium or media or disk or disc or HDD or HDA or DASD	JPO	OR	ON	2006/02/16 10:56
L74	17	L72 and L73	JPO	OR	ON	2006/02/16 10:56
L75	1135	microactuator\$1 or milliactuator\$1 or picoactuator\$1 or (micro ADJ actuator\$1) or (milli ADJ actuator\$1) or (pico ADJ actuator\$1) or micropositioner\$1 or (micro ADJ positioner\$1) or subactuator\$1 or (sub ADJ actuator\$1)	DERWENT	OR	ON	2006/02/16 10:56
L76	21817	(actuator\$1 or positioner\$1 or positioning or (displacement ADJ element\$1)) NEAR2 (auxiliary or second\$3 or fine\$2 or dual or two or multiple or plural\$3 or piezo or piezo-electric\$4 or piezoelectric\$4 or PZT or bimorph\$2 or MEM or MEMS or piggyback\$3 or (piggy ADJ3 back\$3) or electrostatic\$4 or (electro ADJ static\$4) or ((fast or high or wide or large) NEAR1 (resolution or response or bandwidth\$1 or (band ADJ width\$1))))	DERWENT	OR	ON	2006/02/16 10:56
L77	366	micro-actuator\$1 or milli-actuator\$1 or pico-actuator\$1 or micro-positioner\$1 or sub-actuator\$1	DERWENT	OR	ON	2006/02/16 10:56
L78	22766	L75 or L76 or L77	DERWENT	OR	ON	2006/02/16 10:56
L79	281	L78 same (test\$3 or evaluat\$3)	DERWENT	OR	ON	2006/02/16 10:56
L80	962798	medium or media or disk or disc or HDD or HDA or DASD	DERWENT	OR	ON	2006/02/16 10:56
L81	32	L79 and L80	DERWENT	OR	ON	2006/02/16 10:56

EAST Search History

L82	17	microactuator\$1 or milliactuator\$1 or picoactuator\$1 or (micro ADJ actuator\$1) or (milli ADJ actuator\$1) or (pico ADJ actuator\$1) or micropositioner\$1 or (micro ADJ positioner\$1) or subactuator\$1 or (sub ADJ actuator\$1)	IBM_TDB	OR	ON	2006/02/16 10:57
L83	218	(actuator\$1 or positioner\$1 or positioning or (displacement ADJ element\$1)) NEAR2 (auxiliary or second\$3 or fine\$2 or dual or two or multiple or plural\$3 or piezo or piezo-electric\$4 or piezoelectric\$4 or PZT or bimorph\$2 or MEM or MEMS or piggyback\$3 or (piggy ADJ3 back\$3) or electrostatic\$4 or (electro ADJ static\$4) or ((fast or high or wide or large) NEAR1 (resolution or response or bandwidth\$1 or (band ADJ width\$1))))	IBM_TDB	OR	ON	2006/02/16 10:57
L84	5	micro-actuator\$1 or milli-actuator\$1 or pico-actuator\$1 or micro-positioner\$1 or sub-actuator\$1	IBM_TDB	OR	ON	2006/02/16 10:57
L85	230	L82 or L83 or L84	IBM_TDB	OR	ON	2006/02/16 10:57
L86	23	L85 same (test\$3 or evaluat\$3)	IBM_TDB	OR	ON	2006/02/16 10:57
L87	10394	medium or media or disk or disc or HDD or HDA or DASD	IBM_TDB	OR	ON	2006/02/16 10:57
L88	4	L86 and L87	IBM_TDB	OR	ON	2006/02/16 10:57
L89	2554	microactuator\$1 or milliactuator\$1 or picoactuator\$1 or (micro ADJ actuator\$1) or (milli ADJ actuator\$1) or (pico ADJ actuator\$1) or micropositioner\$1 or (micro ADJ positioner\$1) or subactuator\$1 or (sub ADJ actuator\$1)	USPAT	OR	ON	2006/02/16 10:58
L90	89443	(actuator\$1 or positioner\$1 or positioning or (displacement ADJ element\$1)) NEAR2 (auxiliary or second\$3 or fine\$2 or dual or two or multiple or plural\$3 or piezo or piezo-electric\$4 or piezoelectric\$4 or PZT or bimorph\$2 or MEM or MEMS or piggyback\$3 or (piggy ADJ3 back\$3) or electrostatic\$4 or (electro ADJ static\$4) or ((fast or high or wide or large) NEAR1 (resolution or response or bandwidth\$1 or (band ADJ width\$1))))	USPAT	OR	ON	2006/02/16 10:58

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EAST Search History

L91	599	micro-actuator\$1 or milli-actuator\$1 or pico-actuator\$1 or micro-positioner\$1 or sub-actuator\$1	USPAT	OR	ON	2006/02/16 10:58
L92	90618	L89 or L90 or L91	USPAT	OR	ON	2006/02/16 10:58
L93	83026	(magnetic ADJ3 (medium or media or disk or disc)) or HDD or HDA or DASD	USPAT	OR	ON	2006/02/16 10:58
L94	963	L92 NEAR10 stroke	USPAT	OR	ON	2006/02/16 10:58
L95	6824	actuator NEAR10 stroke	USPAT	OR	ON	2006/02/16 10:58
L96	3060	L95 and L92	USPAT	OR	ON	2006/02/16 10:58
L97	2273	L96 not L94	USPAT	OR	ON	2006/02/16 10:58
L98	104	L97 and L93	USPAT	OR	ON	2006/02/16 10:59
L99	609615	displacement or deviation or deflection	USPAT	OR	ON	2006/02/16 11:01
L100	2759	L92 NEAR10 L99	USPAT	OR	ON	2006/02/16 11:01
L101	267	L100 and L93	USPAT	OR	ON	2006/02/16 11:01
L102	1425	microactuator\$1 or milliactuator\$1 or picoactuator\$1 or (micro ADJ actuator\$1) or (milli ADJ actuator\$1) or (pico ADJ actuator\$1) or micropositioner\$1 or (micro ADJ positioner\$1) or subactuator\$1 or (sub ADJ actuator\$1)	US-PGPUB	OR	ON	2006/02/16 11:05
L103	33916	(actuator\$1 or positioner\$1 or positioning or (displacement ADJ element\$1)) NEAR2 (auxiliary or second\$3 or fine\$2 or dual or two or multiple or plural\$3 or piezo or piezo-electric\$4 or piezoelectric\$4 or PZT or bimorph\$2 or MEM or MEMS or piggyback\$3 or (piggy ADJ3 back\$3) or electrostatic\$4 or (electro ADJ static\$4) or ((fast or high or wide or large) NEAR1 (resolution or response or bandwidth\$1 or (band ADJ width\$1))))	US-PGPUB	OR	ON	2006/02/16 11:05
L104	471	micro-actuator\$1 or milli-actuator\$1 or pico-actuator\$1 or micro-positioner\$1 or sub-actuator\$1	US-PGPUB	OR	ON	2006/02/16 11:05
L105	34517	L102 or L103 or L104	US-PGPUB	OR	ON	2006/02/16 11:05
L106	943	L105 NEAR10 stroke	US-PGPUB	OR	ON	2006/02/16 11:05
L107	2360	actuator NEAR10 stroke	US-PGPUB	OR	ON	2006/02/16 11:05
L108	1612	L105 and L107	US-PGPUB	OR	ON	2006/02/16 11:05
L109	799	L108 not L106	US-PGPUB	OR	ON	2006/02/16 11:05
L110	64935	(magnetic ADJ3 (medium or media or disk or disc)) or HDD or HDA or DASD	US-PGPUB	OR	ON	2006/02/16 11:05

EAST Search History

L111	52	L109 and L110	US-PGPUB	OR	ON	2006/02/16 11:05
L112	183248	displacement or deviation or deflection	US-PGPUB	OR	ON	2006/02/16 11:05
L113	1286	L105 NEAR10 L112	US-PGPUB	OR	ON	2006/02/16 11:05
L114	152	L110 and L113	US-PGPUB	OR	ON	2006/02/16 11:05
L115	202	L111 or L114	US-PGPUB	OR	ON	2006/02/16 11:05
L116	143	microactuator\$1 or milliactuator\$1 or picoactuator\$1 or (micro ADJ actuator\$1) or (milli ADJ actuator\$1) or (pico ADJ actuator\$1) or micropositioner\$1 or (micro ADJ positioner\$1) or subactuator\$1 or (sub ADJ actuator\$1)	EPO	OR	ON	2006/02/16 11:39
L117	3862	(actuator\$1 or positioner\$1 or positioning or (displacement ADJ element\$1)) NEAR2 (auxiliary or second\$3 or fine\$2 or dual or two or multiple or plural\$3 or piezo or piezo-electric\$4 or piezoelectric\$4 or PZT or bimorph\$2 or MEM or MEMS or piggyback\$3 or (piggy ADJ3 back\$3) or electrostatic\$4 or (electro ADJ static\$4) or ((fast or high or wide or large) NEAR1 (resolution or response or bandwidth\$1 or (band ADJ width\$1))))	EPO	OR	ON	2006/02/16 11:39
L118	48	micro-actuator\$1 or milli-actuator\$1 or pico-actuator\$1 or micro-positioner\$1 or sub-actuator\$1	EPO	OR	ON	2006/02/16 11:39
L119	3982	L116 or L117 or L118	EPO	OR	ON	2006/02/16 11:39
L120	126758	medium or media or disk or disc or HDD or HDA or DASD	EPO	OR	ON	2006/02/16 11:39
L121	43220	displacement or deviation or deflection	EPO	OR	ON	2006/02/16 11:39
L122	122	L119 NEAR10 L121	EPO	OR	ON	2006/02/16 11:39
L123	6	L122 and L120	EPO	OR	ON	2006/02/16 11:39
L124	333	microactuator\$1 or milliactuator\$1 or picoactuator\$1 or (micro ADJ actuator\$1) or (milli ADJ actuator\$1) or (pico ADJ actuator\$1) or micropositioner\$1 or (micro ADJ positioner\$1) or subactuator\$1 or (sub ADJ actuator\$1)	JPO	OR	ON	2006/02/16 11:41

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EAST Search History

L125	11574	(actuator\$1 or positioner\$1 or positioning or (displacement ADJ element\$1)) NEAR2 (auxiliary or second\$3 or fine\$2 or dual or two or multiple or plural\$3 or piezo or piezo-electric\$4 or piezoelectric\$4 or PZT or bimorph\$2 or MEM or MEMS or piggyback\$3 or (piggy ADJ3 back\$3) or electrostatic\$4 or (electro ADJ static\$4) or ((fast or high or wide or large) NEAR1 (resolution or response or bandwidth\$1 or (band ADJ width\$1))))	JPO	OR	ON	2006/02/16 11:41
L126	106	micro-actuator\$1 or milli-actuator\$1 or pico-actuator\$1 or micro-positioner\$1 or sub-actuator\$1	JPO	OR	ON	2006/02/16 11:41
L127	11866	L124 or L125 or L126	JPO	OR	ON	2006/02/16 11:41
L128	510296	medium or media or disk or disc or HDD or HDA or DASD	JPO	OR	ON	2006/02/16 11:41
L129	69	L127 NEAR10 stroke	JPO	OR	ON	2006/02/16 11:41
L130	820	actuator NEAR10 stroke	JPO	OR	ON	2006/02/16 11:41
L131	89	L127 and L130	JPO	OR	ON	2006/02/16 11:41
L132	35	L131 not L129	JPO	OR	ON	2006/02/16 11:41
L133	4	L132 and L128	JPO	OR	ON	2006/02/16 11:41
L134	171247	displacement or deviation or deflection	JPO	OR	ON	2006/02/16 11:41
L135	850	L127 NEAR10 L134	JPO	OR	ON	2006/02/16 11:41
L136	48	L128 and L135	JPO	OR	ON	2006/02/16 11:41
L137	1135	microactuator\$1 or milliactuator\$1 or picoactuator\$1 or (micro ADJ actuator\$1) or (milli ADJ actuator\$1) or (pico ADJ actuator\$1) or micropositioner\$1 or (micro ADJ positioner\$1) or subactuator\$1 or (sub ADJ actuator\$1)	DERWENT	OR	ON	2006/02/16 11:43
L138	21817	(actuator\$1 or positioner\$1 or positioning or (displacement ADJ element\$1)) NEAR2 (auxiliary or second\$3 or fine\$2 or dual or two or multiple or plural\$3 or piezo or piezo-electric\$4 or piezoelectric\$4 or PZT or bimorph\$2 or MEM or MEMS or piggyback\$3 or (piggy ADJ3 back\$3) or electrostatic\$4 or (electro ADJ static\$4) or ((fast or high or wide or large) NEAR1 (resolution or response or bandwidth\$1 or (band ADJ width\$1))))	DERWENT	OR	ON	2006/02/16 11:43

EAST Search History

L139	366	micro-actuator\$1 or milli-actuator\$1 or pico-actuator\$1 or micro-positioner\$1 or sub-actuator\$1	DERWENT	OR	ON	2006/02/16 11:43
L140	22766	L137 or L138 or L139	DERWENT	OR	ON	2006/02/16 11:43
L141	135	L140 NEAR10 stroke	DERWENT	OR	ON	2006/02/16 11:43
L142	1390	actuator NEAR10 stroke	DERWENT	OR	ON	2006/02/16 11:43
L143	1275	L142 not L141	DERWENT	OR	ON	2006/02/16 11:43
L144	962798	medium or media or disk or disc or HDD or HDA or DASD	DERWENT	OR	ON	2006/02/16 11:43
L145	107	L143 and L144	DERWENT	OR	ON	2006/02/16 11:43
L146	265505	displacement or deviation or deflection	DERWENT	OR	ON	2006/02/16 11:43
L147	785	L140 NEAR10 L146	DERWENT	OR	ON	2006/02/16 11:43
L148	80	L147 and L144	DERWENT	OR	ON	2006/02/16 11:43
<u>L149</u>	187	L145 or L148	DERWENT	OR	ON	2006/02/16 11:43
L150	17	microactuator\$1 or milliactuator\$1 or picoactuator\$1 or (micro ADJ actuator\$1) or (milli ADJ actuator\$1) or (pico ADJ actuator\$1) or micropositioner\$1 or (micro ADJ positioner\$1) or subactuator\$1 or (sub ADJ actuator\$1)	IBM_TDB	OR	ON	2006/02/16 11:46
L151	218	(actuator\$1 or positioner\$1 or positioning or (displacement ADJ element\$1)) NEAR2 (auxiliary or second\$3 or fine\$2 or dual or two or multiple or plural\$3 or piezo or piezo-electric\$4 or piezoelectric\$4 or PZT or bimorph\$2 or MEM or MEMS or piggyback\$3 or (piggy ADJ3 back\$3) or electrostatic\$4 or (electro ADJ static\$4) or ((fast or high or wide or large) NEAR1 (resolution or response or bandwidth\$1 or (band ADJ width\$1))))	IBM_TDB	OR	ON	2006/02/16 11:46
L152	5	micro-actuator\$1 or milli-actuator\$1 or pico-actuator\$1 or micro-positioner\$1 or sub-actuator\$1	IBM_TDB	OR	ON	2006/02/16 11:46
L153	230	L150 or L151 or L152	IBM_TDB	OR	ON	2006/02/16 11:46
L154	10394	medium or media or disk or disc or HDD or HDA or DASD	IBM_TDB	OR	ON	2006/02/16 11:46
L155	83	L153 and L154	IBM_TDB	OR	ON	2006/02/16 11:46
L156	17	actuator NEAR10 stroke	IBM_TDB	OR	ON	2006/02/16 11:46
L157	1	L155 and L156	IBM_TDB	OR	ON	2006/02/16 11:46

Update searched circled L #

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L158	3089	displacement or deviation or deflection	IBM_TDB	OR	ON	2006/02/16 11:46
L159	2	L153 NEAR10 L158	IBM_TDB	OR	ON	2006/02/16 11:46
<u>L160</u>	3	L157 or L159	IBM_TDB	OR	ON	2006/02/16 11:55
L161	304774	AC or oscillati\$2	USPAT	OR	ON	2006/02/16 13:00
L162	336028	L161 or (alternating ADJ current)	USPAT	OR	ON	2006/02/16 11:59
L163	1237	L162 same L50	USPAT	OR	ON	2006/02/16 12:00
L164	622	L162 with L50	USPAT	OR	ON	2006/02/16 12:00
L165	43691	(two or multipl\$5 or plural\$3 or several or many) ADJ5 track	USPAT	OR	ON	2006/02/16 13:32
L166	0	L164 same L165	USPAT	OR	ON	2006/02/16 12:07
L167	628	L50 same L165	USPAT	OR	ON	2006/02/16 12:08
L168	7631	(sens\$3 or reproduc\$3 or read\$3) with L165	USPAT	OR	ON	2006/02/16 12:09
L169	8779	(sens\$3 or reproduc\$3 or read\$3 or detect\$3) with L165	USPAT	OR	ON	2006/02/16 12:09
L170	142	L50 same L169	USPAT	OR	ON	2006/02/16 12:45
L171	3766	L165 and L50	USPAT	OR	ON	2006/02/16 12:46
L172	462	L165 same L162	USPAT	OR	ON	2006/02/16 12:47
L173	42	L172 and L50	USPAT	OR	ON	2006/02/16 12:50
L174	18	L173 and L7	USPAT	OR	ON	2006/02/16 12:51
L175	2229	oscillati\$2 ADJ voltage	USPAT	OR	ON	2006/02/16 13:02
L176	1	L175 same L165	USPAT	OR	ON	2006/02/16 13:02
L177	673489	frequency	USPAT	OR	ON	2006/02/16 13:02
L178	2800	L177 same L165	USPAT	OR	ON	2006/02/16 13:03
L179	292	L178 and L50	USPAT	OR	ON	2006/02/16 13:03
L180	195	L179 and L7	USPAT	OR	ON	2006/02/16 13:04
L181	1311	L177 with L165	USPAT	OR	ON	2006/02/16 13:04
L182	136	L181 and L50	USPAT	OR	ON	2006/02/16 13:04
L183	94	L182 and L7	USPAT	OR	ON	2006/02/16 13:13
L184	673795	L175 or L177	USPAT	OR	ON	2006/02/16 13:14
L185	2800	L184 same L165	USPAT	OR	ON	2006/02/16 13:14
L186	45900	L184 with (L50 or actuator or head or slider or transducer)	USPAT	OR	ON	2006/02/16 13:32
L187	5417	L186 and L50	USPAT	OR	ON	2006/02/16 13:16
L188	651	L186 same L165	USPAT	OR	ON	2006/02/16 13:18
L189	107	L188 and L50	USPAT	OR	ON	2006/02/16 13:18

EAST Search History

L190	78	L189 and L7	USPAT	OR	ON	2006/02/16 13:31
L191	288824	(oscillati\$2 ADJ2 voltage) or frequency	US-PGPUB	OR	ON	2006/02/16 13:41
L192	12437	(two or multipl\$5 or plural\$3 or several or many) ADJ5 track	US-PGPUB	OR	ON	2006/02/16 13:42
L193	0	L191 with (L57 or actuator or head or slider or transducer)	USPAT	OR	ON	2006/02/16 13:41
L194	13596	L191 with (L57 or actuator or head or slider or transducer)	US-PGPUB	OR	ON	2006/02/16 13:34
L195	2854	L194 and L57	US-PGPUB	OR	ON	2006/02/16 13:35
L196	105	L194 same L192	US-PGPUB	OR	ON	2006/02/16 13:35
L197	33	L196 and L57	US-PGPUB	OR	ON	2006/02/16 13:35
L198	27	L197 and L59	US-PGPUB	OR	ON	2006/02/16 13:36
L199	911700	(oscillati\$2 ADJ2 voltage) or frequency	EPO; JPO; DERWENT	OR	ON	2006/02/16 13:43
L200	27736	L199 with (L64 or L71 or L78 or actuator or head or slider or transducer)	EPO; JPO; DERWENT	OR	ON	2006/02/16 13:44
L201	19038	(two or multipl\$5 or plural\$3 or several or many) ADJ5 track	EPO; JPO; DERWENT	OR	ON	2006/02/16 13:44
L202	167	L200 same L201	EPO; JPO; DERWENT	OR	ON	2006/02/16 13:42
L203	3	L202 and (L64 or L71 or L78)	EPO; JPO; DERWENT	OR	ON	2006/02/16 13:43
L204	6328	(oscillati\$2 ADJ2 voltage) or frequency	IBM_TDB	OR	ON	2006/02/16 13:43
L205	126	L204 with (L85 or actuator or head or slider or transducer)	IBM_TDB	OR	ON	2006/02/16 13:44
L206	335	(two or multipl\$5 or plural\$3 or several or many) ADJ5 track	IBM_TDB	OR	ON	2006/02/16 13:44
L207	6	L205 and L206	IBM_TDB	OR	ON	2006/02/16 13:45

Searched circled L #'s

EAST Interference Search

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L208	1	((oscillating ADJ voltage) and frequency and micro-actuator and (two ADJ concentric ADJ tracks)).clm.	US-PGPUB	OR	ON	2006/02/16 14:01